



PATENT
454311-2200.1

1645
#21

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Steven D. HANES et al. Notice of Allowance
Dated: November 6, 2002
Serial No. : 09/507,242 Confirmation No.: 9120
For : CaESSI: A CANDIDA ALBICANS GENE,
METHODS FOR MAKING AND USING, AND
TARGETING IT AND ITS EXPRESSION
PRODUCTS FOR ANTIFUNGAL APPLICATIONS
Filed : February 18, 2000
Examiner : Padmavathi Baskar
Art Unit : 1645

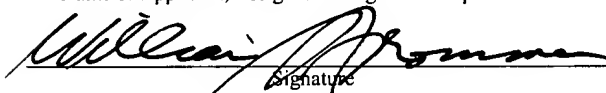
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I hereby certify that this correspondence is being deposited with
the United States Postal Service as first class mail in an envelope
addressed to: Hon. Commissioner of Patents and Trademarks
Washington, DC 20231, on January 13, 2003.

William S. Frommer, Reg. No. 25,506

Name of Applicant, Assignee or Registered Representative


Signature
January 13, 2003

Date of Signature

FILING OF FORMAL DRAWINGS

Assistant Commissioner for Patents
Box Issue Fee
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Attention: **Official Draftsperson**

Sir:

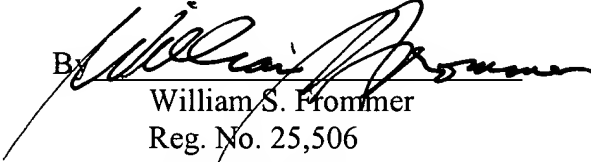
In accordance with the requirement cited in the Notice of Allowability (PTOL-37,
Paper No. 19), Applicants file herewith (5) sheets of formal drawings to be made of record in

the present application in place of the original drawings and which avoid the objections stated in
PTO Form 948 attached to Paper No. 6.

Respectfully submitted,

FROMMER LAWRENCE & HAUG LLP
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By


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Encs. - Formal Drawings (5 sheets)





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1GATCAACCAATAGATGTTGGTCTAACCAGCTCAAGACGCGTTGAAGACAGAGGTATTAGACACACAGCAATAGTCACTTGAAAT 88
89 AGATATACAGTTGAGATTGCTGCTGCAATAGATATTAGGTAGTGATACATTACCAAAACTTCTCTCTTTTCTATATATTCTTCATCAACACAGATTTC 188
189 GTTGTGCGCTTTTGTGTTATTATTGTCATCATGTTTAGCTTGATTCTTTTTCAGTAGTATATCATC ATG GCA TCG ACA TCA ACA GGC TTA 279
M A S T S T G L 8
280 CCA CCT AAT TGG AGG ATT AGA GTA TCC AGA TCC CAT AAC AAA GAG TAT TTC TTA AAC CAA TCT ACC AAT GAG TCG 354
9 P P N W T I R V S R S H N K E Y F L N Q S T N E S 33
355 TCT TGG GAC CCA CCT TAT GGC ACT GAC AAA GAA GTA TTG AAT GCA TAC ATT GCG AAG TTT AAA AAC AAT GGT TAC 429
34 S W D P P Y G T D K E V L N A Y I A K F K N N G Y 58
430 AAG CCA CTT GTG AAT GAG GAT GGC CAG GTT AGA GTT TCT CAT TTG TTG ATC AAG AAC AAT CAA TCA AGA AAA CCC 504
59 K P L V N E D G Q V R V S H L I K N N Q S R K P 83
505 AAG TCT TGG AAG TCC CCA GAT GGT ATA AGT AGA ACT AGA GAC GAA TCT ATA CAG ATA TTG AAG AAA CAT TTG GAA 579
84 K S W K S P D G I S R T R D E S I Q I L K K H L E 108
580 AGA ATA TTG AGT GGT GAG GTT AAA CTA AGT GAA TTG GCA AAT ACC GAA AGT GAT TGC AGC TCA CAT GAC AGA GGT 654
109 R I L S G E V K L S E L A N T E S D C S S H D R G 133
655 GGT GAT TTA GGG TTT TTT AGC AAA GGA CAA ATG CAA CCA TTC GAA GAA GCC GCA TTC AAT TTG CAT GTT GGA 729
134 G D L G F F S K G Q M Q P P F E E A A F N L H V G 150
730 GAA GTC AGT AAC ATA ATT GAA ACC AAT AGT GGT GTC CAT ATC CTC CAA AGA ACA GGA TAA ATCAAGATATTGGAGTTTGA 809
151 E V S N I I E T N S G V H I L Q R T G * 178
810 TGAATAATGAAATAATATAGAGACAGTTGTATAGATTGGTAAACCAAAAAAGCGATGGCTCACAAAAGTCGAAAACCTGTGGAGAGAACATCTTACCAGG 909
910 TACACGGCGATTAAACTCTAATCGTCGATATTATATATATCGGAACGTTTCCCGTCATGGTTTGTATATTGGATCC 989

The CaESS1 gene of *Candida albicans*

FIG. 1A



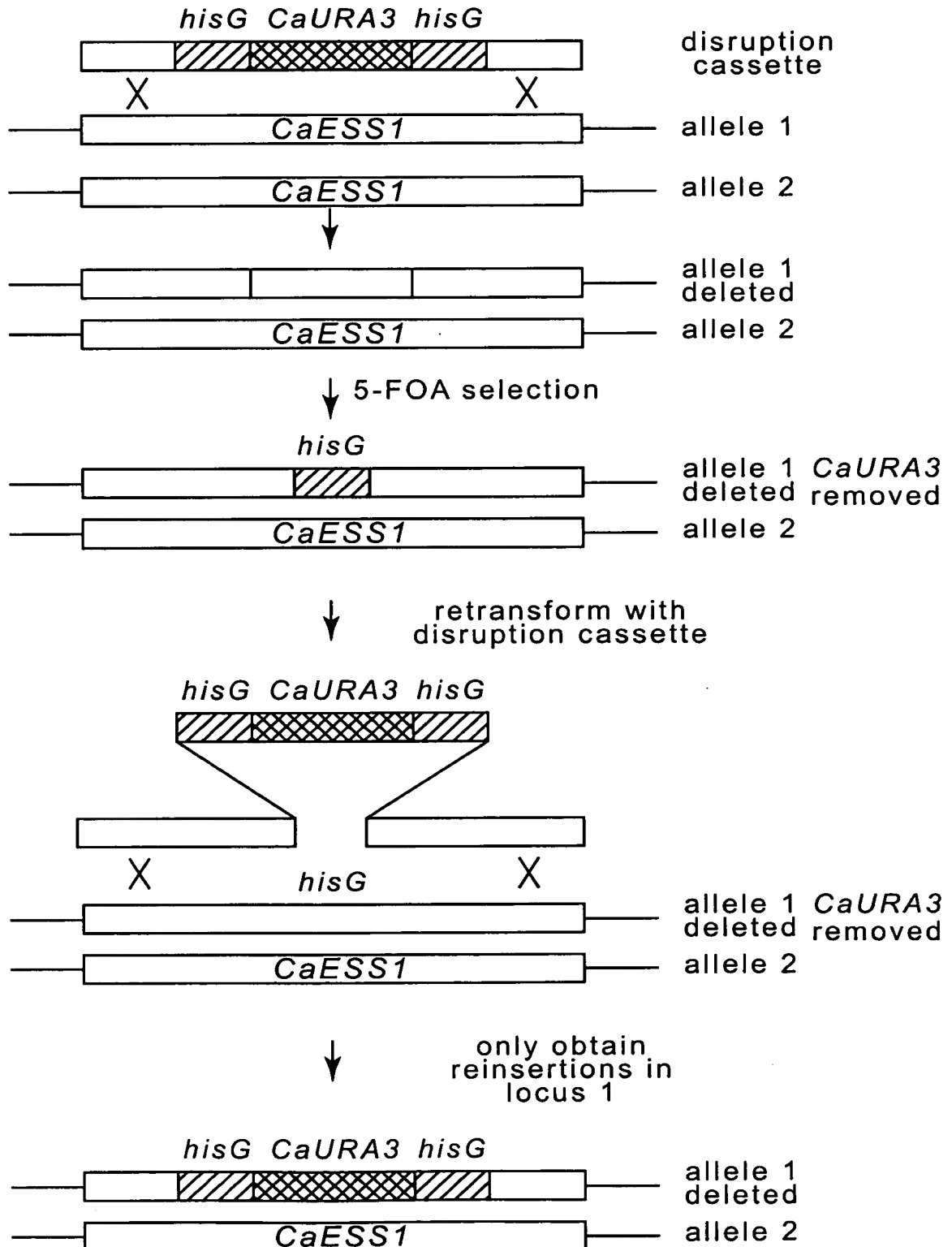
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FIG. 1B

Gene Knockout of
CaESS1 in *Candida albicans*



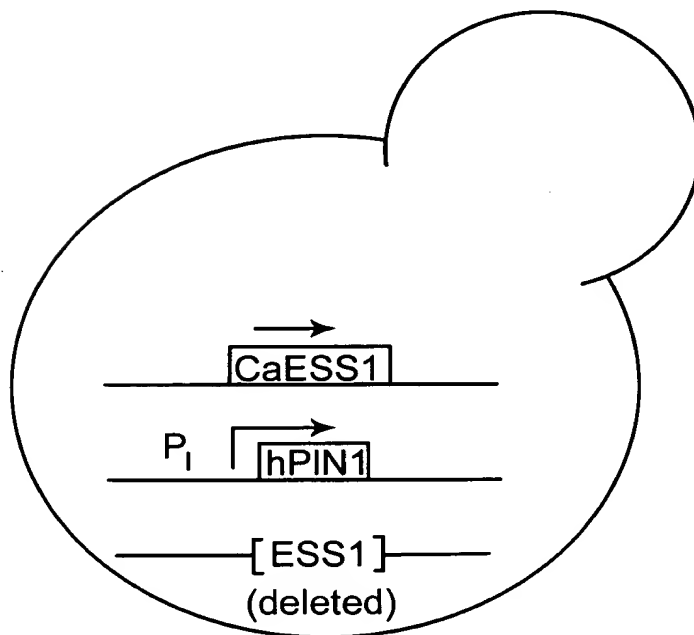


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FIG. 2

Yeast Strain to Identify Inhibitors
Specific for *Candida albicans* CaESS1





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Screen for CaESS1 Inhibitors

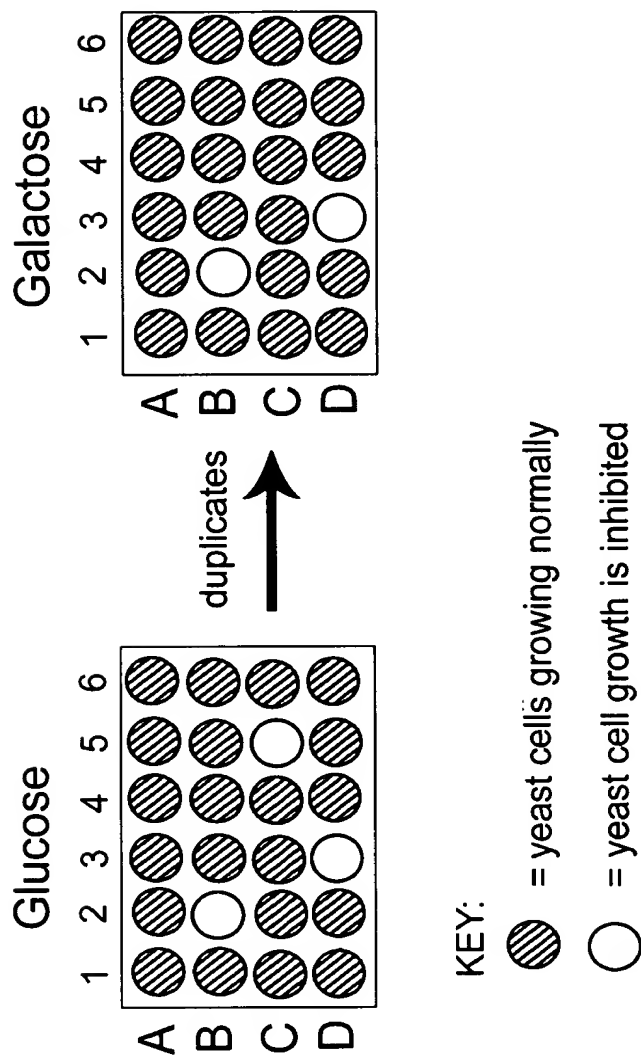
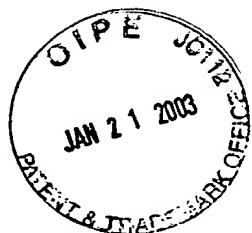
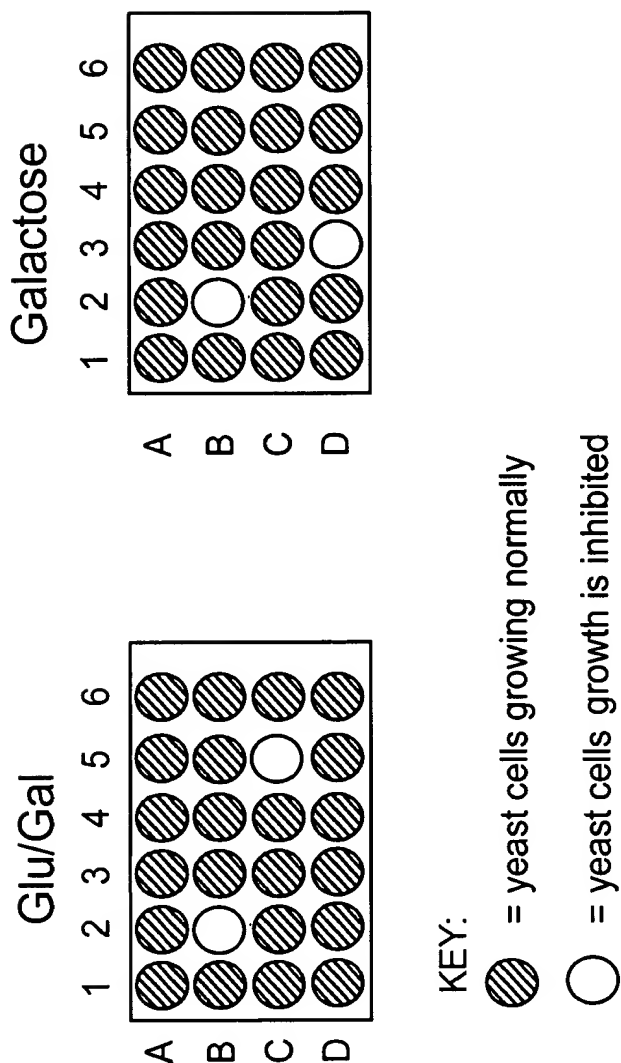


FIG. 3



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Screen for *hPIN1* Inhibitors

FIG. 4